

U015720-5
Rec'd PCI/PTO 18 APR 2005

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN03/00856

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: C22B11/02, 30/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: C22B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, CNPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN1363696A (the Institute of Nanhua Group) 14.Aug.2002 (14.08.02) , Claims	1-16
A	CN2335974Y (Ma menghua et al) 01.Sept.1999 (01.09.99) Specification	1-16
A	CN1189540A (Tan mingsen) 05.Aug. 1998 (05.08.98) Specification Page3,4.	1-31
A	CN1045379A (Beijing Non-ferrous Metal Institute) 19.Sept.1990 (19.09.90)	17-31
A	CN1184856A(Tan Mingsen)17.Jun.1998 (17.06.98)	17-31

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 09.Mar. 2004(09.03.04)	Date of mailing of the international search report 18 · MAR 2004 (18 · 03 · 2004)
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Name and mailing address of the ISA/CN 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451	Authorized officer SHEN, Lian Telephone No. 86-10-62084832
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EXPRESS MAIL LABEL
NO.: EV 480459329 US

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Claims 1-16 are characterized as processing steps and the combination thereof, while claims 17-31 are the structures of devices and their combination. These two groups of claim share no special technical character, ie. they don't belong to a single general inventive concept, therefore they do not satisfy the requirement provided in Rul. 13.1 of PCT.

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.